Full-Stack Web & Mobile Development + AI/ML Roadmap

Stage 1: Foundation (1-2 Months)

- HTML, CSS, JS (core): FreeCodeCamp / MDN

- Programming Basics (Python & Java)

- Git & GitHub (Version Control)

- Linux Basics (Ubuntu, CLI Commands)

Stage 2: Frontend Web Development with React (2 Months)

- React Fundamentals: JSX, Hooks, Components

- TailwindCSS / CSS Modules

- React Router for SPA

- Context API & Redux Toolkit

- Deployment: Vercel / Netlify

- Projects: Portfolio, Blog App, Dashboard UI

Stage 3: Backend Development (3 Months)

- Node.js + Express: REST APIs, Auth, File Uploads

- Django: MVC, DRF, Admin Panel

- Spring Boot: REST, JPA, Security

- Projects: Auth App, E-commerce API, Task Manager

Stage 4: Database Mastery (1-1.5 Months)

- PostgreSQL: Joins, Indexing, PgAdmin

- MongoDB: Collections, Mongoose, Aggregation

- Projects: Blog DB, Role-Based App, Geo-location

Stage 5: Mobile Development (3-4 Months)

- React Native: Expo, Redux, APIs, Deployment

- Kotlin: Android Studio, Jetpack Compose

- Swift: SwiftUI, Navigation, State

- Python (optional): Kivy / BeeWare for small apps

- Projects: Chat App, Booking App, To-Do App

Stage 6: AI/ML with Python (3-4 Months)

- Python for Data Science: Numpy, Pandas

- ML Models: Scikit-Learn, Classification/Regression

- Deep Learning: TensorFlow / PyTorch

- NLP & Image: NLTK, OpenCV

- Deployment: Flask, Streamlit

- Projects: Spam Detector, ChatBot, Face Recognition

Stage 7: DevOps, Deployment & Version Control (2 Months)

- Git + GitHub Workflows

- CI/CD: GitHub Actions, Jenkins

- Hosting: Vercel, Netlify, Heroku, Railway

- Server Setup: Nginx, Gunicorn, Linux

- Docker Basics

- Domain + SSL: Cloudflare, Let's Encrypt